

CAEAA

for defense

- Wide operating temperature range, 105 °C2000h life
- Military products meet environmental requirements such as vibration and low air pressure
- A and B type fixing methods are available, and the size can be customized according to needs
- Military products can be supplied according to the "seven specialized" level, and can also be supplied according to the "general army" level
- It is suitable for filtering and energy storage in electronic circuits in aerospace, aviation, cold, high altitude and ocean



Main technical parameters:

Item	characteristic								
Operating temperature range	-55℃~+105℃								
Rated voltage range	10V~450V								
Nominal capacitance range	220μF~2200000μF								
Allowable deviation of nominal capacitance (25℃, 120Hz)	M (±20%)								
DC leakage current (25℃, 5min)	I≤0.01C _R U _R (μA) or 15mA (whichever is less) C _R : Nominal capacitance (μF); U _R : Rated voltage (V)								
Loss tangent tgδ (max) (25℃, 120Hz)	U_R(V) φD	10	16	25	35	50	63	100	160~450
	35	0.8	0.6	0.5	0.4	0.3	0.25	0.25	0.25
	51	1.5	1	0.8	0.6	0.5	0.4	0.25	0.25
	63.5	2	1.5	1	0.8	0.6	0.5	0.35	0.25
	76,90,100	3	2.5	2	1	0.6	0.5	0.35	0.25
Temperature characteristics (impedance ratio, 120Hz)	U _R (V)	10~16		25~100		160		250~450	
	Z _{-40℃} /Z _{+25℃}	≤3		≤2		≤4		≤7	
	Z _{-55℃} /Z _{+25℃}	≤5		≤4		≤7		≤15	
durability	The rated voltage with ripple current is applied at 105℃ for 2000h, and after recovery for 24h, the test is carried out at room temperature (25℃±5℃), and its electrical performance conforms to:								
	Rate of change in capacitance		≤± 20% of the initial measurement						
	The loss angle tangent tgδ		≤ 200% of the initial specified value						
	DC leakage current		≤ initial prescriptive value						
Store at high temperatures	After storing at 105℃ for 500 hours and recovering for 24 hours, the electrical properties of the two temperatures (25℃±5℃) were tested, and the electrical properties conformed to:								
	Rate of change in capacitance		≤± 20% of the initial measurement						
	The loss angle tangent tgδ		≤ 200% of the initial specified value						
	DC leakage current		≤ 200% of the initial specified value						

Executive standard number: Q/MN102-2008 Seven special standard number: QZJ840634

Outline drawing and size table (mm)

Type A (Basic type, fixed mounting ring)

Type B (bottom screw fixed, please specify when ordering)

D	F±1.0	Hexagon screws	The maximum torque is N.m	remark
35	13	M5×10	2	Military Ordinary products
51	20	M5×10	2	Military Ordinary products
	22	M5×10	2	Military Ordinary products
63.5	25	M5×10	2	Military Ordinary products
	28.6	M5×10	2	Military Ordinary products

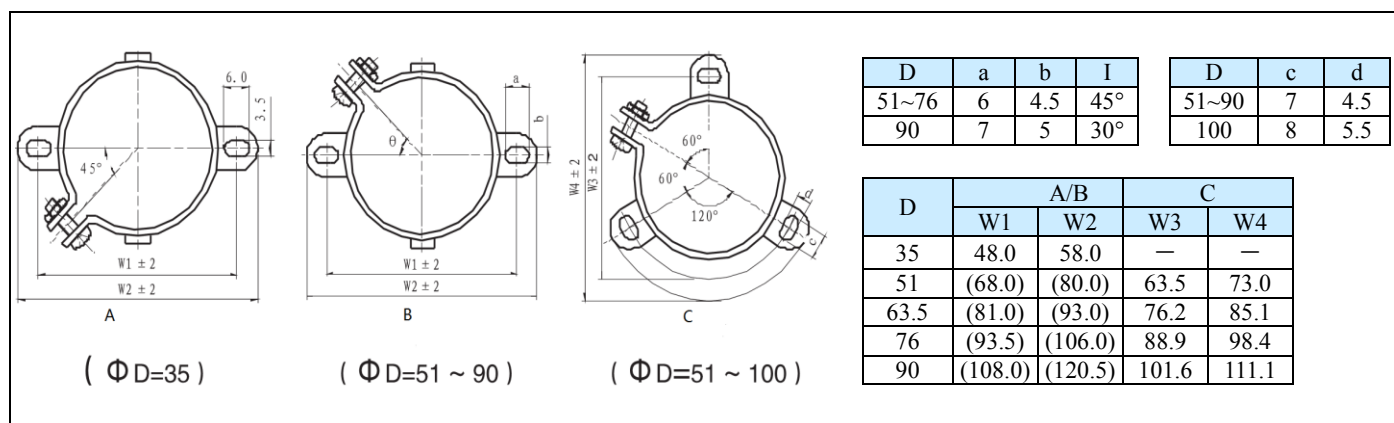
D	F±1.0	Hexagon dart nails	The maximum torque is N.m	remark
76	30	M5×10	2	Military Ordinary products
	32	M5×10	2	Military Ordinary products
90	32	M5×10	2	Military Ordinary products
	32	M5×10	2	Military Ordinary products
100	41.5	M8×16	3	Military Ordinary products
	41.5	M8×16	3	Military Ordinary products

D	d	h	The maximum torque is N.m
35	M8	12	4
≥51	M12	16	10

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■ Outline drawing and size table of mounting ring(mm)



■ List of product specifications and technical parameters

UR(V) CR(μF)	10 1A		16 1C		25 1E		35 1V		50 1H		63 1J	
	DxL (mm)	I~ (A)	DxL (mm)	I~ (A)	DxL (mm)	I~ (A)	DxL (mm)	I~ (A)	DxL (mm)	I~ (A)	DxL (mm)	I~ (A)
3300											35×50	2.9
4700							35×50	3.1	35×50	3.8	35×50	3.4
6800					35×50	3.0	35×50	3.5	35×50	4.2	35×50	4.1
10000			35×50	3.3	35×50	3.6	35×50	4.7	35×50	4.9	35×60	5.0
15000	35×50	3.4	35×50	3.7	35×50	4.1	35×50	5.1	35×60	5.5	35×90	5.9
22000	35×50	4.1	35×50	4.2	35×50	4.9	35×80	5.6	35×90	6.3	51×65	6.9
33000	35×50	4.8	35×50	5.2	35×60	6.2	51×60	7.4	51×65	8.0	51×80	9.4
47000	35×50	6.2	35×60	6.8	35×80	8.3	51×80	8.4	51×80	9.9	63.5×80	11.2
68000	35×60	6.8	35×80	7.1	51×60	10.2	51×100	12.3	51×100	12.8	63.5×100	13.5
100000	35×80	8.6	51×60	9.6	51×80	11.5	63.5×100	13.6	63.5×100	16.8	76×120	17.8
150000	51×60	10.8	51×80	11.0	63.5×80	13.8	63.5×120	15.1	76×120	19.5	76×140	21.0
220000	51×80	13.2	51×100	14.1	63.5×100	17.0	76×120	17.4	76×140	22.0	90×150	23.7
330000	51×100	15.8	63.5×100	20.6	76×120	20.8	76×170	21.3	90×150	24.3	90×200	26.1
470000	63.5×100	17.0	63.5×120	22.1	76×140	22.4	90×150	25.4	90×200	26.1	100×25	28.1
680000	63.5×120	18.4	76×120	24.0	90×150	24.2	90×200	27.5	100×250	27.8		
1000000	76×140	20.1	76×180	26.1	90×200	26.4	100×250	29.7				
1500000	90×150	22.1	90×200	28.8	100×250	29.2						
2200000	90×200	24.3	100×250	30.1								

Rated ripple current (105°C, 120Hz)

■ List of product specifications and technical parameters

UR(V) CR(μF)	100 2A		160 2C		250 2E		350 2V		400 2G		450 2W	
	DxL (mm)	I~ (A)	DxL (mm)	I~ (A)	DxL (mm)	I~ (A)	DxL (mm)	I~ (A)	DxL (mm)	I~ (A)	DxL (mm)	I~ (A)
220											35×60	1.9
330									35×60	2.1	35×80	2.5
470							35×50	2.5	35×80	2.7	35×100	3.2
680					35×50	1.4	35×80	3.2	35×100	4.1	51×80	3.9
1000			35×50	1.6	35×80	1.9	35×100	4.8	51×80	5.0	51×100	5.2
1500	35×50	1.9	35×60	2.1	35×100	2.4	51×80	6.5	51×100	6.8	51×120	6.4
2200	35×50	2.4	35×80	2.7	51×65	3.2	51×100	8.2	63.5×100	8.9	63.5×100	9.0
3300	35×60	3.3	51×60	3.8	51×100	4.3	63.5×80	11.8	63.5×120	11.8	76×120	12.1
4700	35×80	3.8	51×80	4.5	51×120	5.9	63.5×120	13.8	76×120	14.8	76×150	15.1
6800	35×100	5.2	51×100	6.8	63.5×100	7.1	76×120	19.2	76×160	19.2	90×150	20.0
10000	51×80	6.7	63.5×100	7.8	76×120	9.6	76×180	25.1	90×160	24.2	90×200	24.8
15000	51×100	7.8	63.5×120	9.8	76×140	12.7	90×140	30.4	90×250	28.5	100×250	29.7
22000	63.5×100	9.9	76×120	12.5	90×150	15.4	90×200	34.7	100×250	34.8		
33000	63.5×120	12.7	76×160	13.4	90×200	17.0	100×250	37.9				
47000	76×120	17.0	90×160	17.2	100×250	18.2						
68000	76×160	18.2	90×220	19.2								
100000	90×150	20.6	100×250	21.2								
150000	100×250	23.4										

Rated ripple current (105°C, 120Hz)

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HOW TO MAKE A PART NUMBER

